

# MDO-8

## Technical Documentation MDO-8 Digital Output Submodule

*Please keep for further use !*

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## MDO 8 Digital Output Submodule

8-Bit 24V/0.5A

### 1 General

The MDO8 output module is a submodule, which is galvanically decoupled by means of optocouplers, for the FOX-10 basic module. The submodule provides eight digital outputs for 24V/0.5A. For operation in the II/O system, you can install up to four MDO8s in the four slots of a FOX-10 basic module. This makes possible a maximum of 32 outputs per FOX-10. In addition, you can combine MDO8s with different modules, e.g. digital inputs. Every MDO8 occupies eight of the 32 bits of user information in the message. Depending on the slot (1 to 4), the module occupies one of the data bytes D0, D1, D2 or D3.

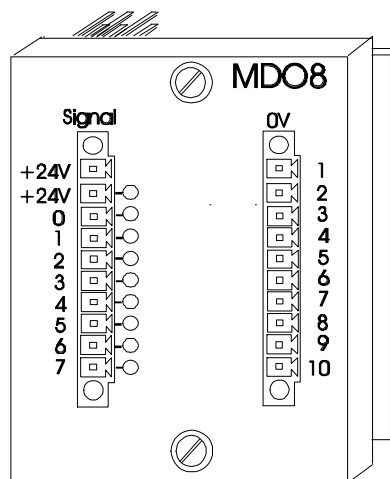


Figure: 8-Bit Digital Output Module

## 2 Technical data of MDO8

<b>Outputs</b>	8 outputs, galvanically decoupled 8 LED output status indicators 1 LED voltage indicator
<b>Output Specifications</b>	24 V/0.5 A, short-circuit-proof After getting rid of an existing short-circuit, the output resets itself to its logical status, i.e. if the output is set from the point of view of the message, it switches ON.
<b>Output Monitoring</b>	Watchdog circuit
<b>Supply</b>	24 V DC ( $\pm 20\%$ ), 0.02 A (without load and input currents)
<b>Housing</b>	Module with front panel is mounted in the FOX-10 using two screws.
<b>Dimensions (W x H x D)</b>	58 x 72 x 50 mm
<b>Weight</b>	Approx. 100 g
<b>Temperature</b>	Operation $\pm 0..+55^{\circ}$ C Storage: $-20..+70^{\circ}$ C

### 3 Signal description and example of MDO8 connection

Pin	Signal	I/O	Description
L-1	+ 24V	VCC	+ 24 V DC output driver supply
L-2	+ 24V	VCC	+ 24 V DC output driver supply
L-3	DO 0	Out	Bit 0 of data byte 0, 1, 2 or 3
L-4	DO 1	Out	Bit 1 of data byte 0, 1, 2 or 3
L-5	DO 2	Out	Bit 2 of data byte 0, 1, 2 or 3
L-6	DO 3	Out	Bit 3 of data byte 0, 1, 2 or 3
L-7	DO 4	Out	Bit 4 of data byte 0, 1, 2 or 3
L-8	DO 5	Out	Bit 5 of data byte 0, 1, 2 or 3
L-9	DO 6	Out	Bit 6 of data byte 0, 1, 2 or 3
L-10	DO 7	Out	Bit 7 of data byte 0, 1, 2 or 3
Pin	Signal	I/O	Description
R-1	0V	GND	Ground, feedback of outputs
R-2 ...			Ground, feedback of outputs
.....			Ground, feedback of outputs
R-9			
R-10	0V	GND	Ground, feedback of outputs

Pin designations      L: left-hand row  
                                  R: right-hand row